

In the Claims

Claims 1-24 have been cancelled.

25. (New) A method for compensation of frequency offset between a first wireless device and a second wireless device, the first wireless device and the second wireless device communicating in order to exchange data packets, the method comprising:

transmitting a plurality of frequency synchronization bursts from the first wireless device to a second wireless device, wherein each frequency synchronization burst from the plurality of synchronization bursts is transmitted at a particular, but differing frequency offset from a center frequency and each frequency synchronization burst contains information regarding its particular frequency offset; and

transmitting at the center frequency, one or more data packets to the second wireless device.

26. (New) The method of claim 25 wherein the synchronization bursts also contain information regarding a time offset.

27. (New) The method as recited in claim 25 wherein transmitting the plurality of frequency synchronization bursts comprises:

transmitting the plurality of frequency synchronization bursts in a pattern; and

transmitting frequency position information relative to each frequency synchronization burst with respect to the data packets, the information being transmitted as a part of the frequency synchronization burst, the relative position of the frequency synchronization bursts being determined in terms of time and frequency.

28. (New) The method as recited in claim 25 further comprising the step of retaining an adjusted frequency of the second wireless device after the completion of an exchange of packets.

29. (New) The method as recited in claim 25 further comprising transmitting frequency synchronization bursts before a transmission of beacon packets, the transmission of beacon packets being executed by a network coordinator device.

30. (New) The method as recited in claim 25 wherein the frequency synchronization bursts are transmitted in a monotonic pattern.

31. (New) The method as recited in claim 25 wherein the frequency synchronization bursts are transmitted in a converging pattern.

32. (New) A method for compensation of frequency offset between a first wireless device and a second wireless device, the first wireless device and the second wireless device communicating in order to exchange data packets, the method comprising:

receiving a frequency synchronization burst transmitted at a particular frequency offset from a center frequency and containing information regarding its particular frequency offset; and

receiving at the center frequency, one or more data packets.

33. (New) The method of claim 32 wherein the frequency synchronization burst is one burst from a plurality of plurality of synchronization bursts with each burst being transmitted at a particular, but differing frequency offset from the center frequency.

34. (New) The method of claim 32 wherein the synchronization bursts also contain information regarding a time offset.

35. (New) The method as recited in claim 32 wherein receiving the plurality of frequency synchronization bursts comprises:

receiving the plurality of frequency synchronization bursts in a pattern having frequency position information relative to each frequency synchronization burst with respect to the data packets, the information being received as a part of the frequency synchronization burst, the relative position of the frequency synchronization bursts being determined in terms of time and frequency.

36. (New) The method as recited in claim 32 further comprising receiving frequency synchronization bursts before a reception of beacon packets, the transmission of beacon packets being executed by a network coordinator device.

37. (New) The method as recited in claim 32 wherein the frequency synchronization bursts are received in a monotonic pattern.

38. (New) The method as recited in claim 32 wherein the frequency synchronization bursts are received in a converging pattern.

39. (New) An apparatus comprising:

a transmitter transmitting a plurality of frequency synchronization bursts from the first wireless device to a second wireless device, wherein each frequency synchronization burst from the plurality of synchronization bursts is transmitted at a particular, but differing frequency offset from a center frequency and each frequency synchronization burst contains information regarding its particular frequency offset, the transmitter additionally transmitting one or more data packets at the center frequency to the second wireless device.

40. (New) The apparatus of claim 39 wherein the synchronization bursts also contain information regarding a time offset.

41. (New) The apparatus of claim 39 wherein the frequency synchronization bursts are transmitted before a transmission of beacon packets, the transmission of beacon packets being executed by a network coordinator device.

42. (New) The apparatus of claim 39 wherein the frequency synchronization bursts are transmitted in a monotonic pattern.

43. (New) The apparatus of claim 39 wherein the frequency synchronization bursts are transmitted in a converging pattern.